

### AMENDMENTS TO THE ABSTRACT

*Please replace the Abstract of record with the attached Substitute Abstract. The changes made to the Abstract are shown below.*

#### ABSTRACT

~~The invention relates to a~~ A method for the ultrasensitive simultaneous measurement of nonlinear optical emission signals in one or two local dimensions. ~~Said method comprises wherein the following steps: the excitation light is irradiated in a power modulated or pulse-modulated from form~~ from at least one light source into an interactive ~~volume or onto an interactive area or layer (hereafter called interactive spaces)~~ space in which one or several emissions that are nonlinearly correlated with the excitement light can be excited; ~~the~~ The light emanating from ~~said the~~ interactive spaces is measured ~~by means of using~~ a one-dimensional or two-dimensional detector array; ~~the measured~~ Measured data is ~~then~~ transmitted ~~from said detector array~~ to a computer; ~~and said data is~~ and formatted in a one-dimensional or two-dimensional data matrix. ~~The inventive method is characterized in that non-correlated~~ Further, non-correlated portions of the light emanating from the interactive spaces ~~or the portions thereof~~ that are linearly proportionate to the intensity of the excitement light available in ~~said the~~ interactive spaces are separated from portions of the light emanating from the interactive ~~spaces, spaces~~ which are not linearly proportionate ~~to the intensity of the available excitement light~~. The invention ~~further also~~ relates to an analytical system ~~that is suitable for carrying out the inventive this~~ method.